Readily accessible means direct access without the necessity of removing any panel, door, or similar obstruction.

Roof jack means that portion of a manufactured home heater flue or vent assembly, including the cap, insulating means, flashing, and ceiling plate, located in and above the roof of a manufactured home.

Sealed combustion system appliance means an appliance which by its inherent design is constructed so that all air supplied for combustion, the combustion system of the appliance, and all products of combustion are completely isolated from the atmosphere of the space in which it is installed.

Water heater means an appliance for heating water for domestic purposes other than for space heating.

[40 FR 58752, Dec. 18, 1975. Redesignated at 44 FR 20679, Apr. 6, 1979, as amended at 52 FR 4586, Feb. 12, 1987; 58 FR 55015, Oct. 25, 1993]

EFFECTIVE DATE NOTE: At 78 FR 73987, Dec. 9, 2013, §3280.702 was amended as follows, effective June 6, 2014.

a. Revise the definitions of ''Class 0 air ducts,'' and ''Class 1 air ducts'';

b. Remove the definition of ''Class 2 air ducts'';

c. Add in alphabetical order definitions of ''Combination space heating and water heating appliance,'' ''Direct-vent system,'' and ''Direct-vent system appliance'';

d. Remove the definition of ''Energy efficiency ratio (EER)''; and

e. Revise the definitions of ''Heating appliance'' and ''Water heater''.

For the convenience of the user, the added and revised text is set forth as follows:

§ 3280.702 Definitions.

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Class 0 air ducts and air connectors means air ducts and air connectors having a fire hazard classification of zero when tested in accordance with UL 181–2003, Factory-Made Air Ducts and Air Connectors (incorporated by reference, see §3280.4).

Class 1 air ducts and air connectors means air ducts and air connectors having a flame spread rating of not over 25 without evidence of continued progressive combustion and a smoke developed rating of not over 50 when tested in accordance with UL 181–2003, Standard for Safety Factory-Made Air Ducts and Air Connectors (incorporated by reference, see §3280.4).

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Combination space heating and water heating appliance means a listed unit that is designed to provide space heating and water heating from a single primary energy source.

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Direct-vent system means a system or method of construction where all air for combustion is derived directly from the outside atmosphere and all flue gases are discharged to the outside atmosphere.

Direct-vent system appliance means an appliance that is installed with a direct vent system.

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Heating appliance means an appliance for comfort heating, domestic water heating, or a combination of comfort heating and domestic water heating.

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Water heater means an appliance for heating water for domestic purposes.

§ 3280.703 Minimum standards.

Heating, cooling and fuel burning appliances and systems in manufactured homes shall be free of defects, and shall conform to applicable standards in the following table unless otherwise specified in this standard. (See §3280.4) When more than one standard is referenced, compliance with any one such standard shall meet the requirements of this standard.

APPLIANCES

Heating and Cooling Equipment, Second Edition, with 1999 revisions—UL 1995, 1995.

Liquid Fuel-Burning Heating Appliances for Manufactured Homes and Recreational Vehicles, Seventh Edition, with 1997 revisions—UL 307A–1995.

Fixed and Location-Dedicated Electric Room Heaters, Second Edition, with 1998 revisions—UL 2021–1997.

Electric Baseboard Heating Equipment, Fourth Edition, with 1998 revisions—UL 1042–1994.

Electric Central Air Heating Equipment—UL 1096-Fourth Edition-1986 with revisions July 16, 1986, and January 30, 1988.

Gas Burning Heating Appliances for Manufactured Homes and Recreational Vehicles, Fourth Edition, with 1998 revisions—UL 307B–1995.

Gas Clothes Dryers Volume 1, Type 1 Clothes Dryers—ANSI Z21.5.1–/CSA 7.1–M99—1999 with Addendum Z21.5.1a–1999.

Gas Fired Absorption Summer Air Conditioning Appliances—ANSI Z21.40.1/CGA 2.91–M961996.
Gas-Fired Central Furnaces (Except Direct Vent System Central Furnaces)—ANSI Z21.47–1990 with Addendum Z21.47a–1990 and Z21.47b–1992.
Household Cooking Gas Appliances—ANSI Z21.1–2000.
Refrigerators Using Gas Fuel—ANSI Z21.19–1990, with Addendum ANSI Z21.19a–1992 and Z21.19b–1995.
Gas Water Heaters—Volume 1, Storage Water Heaters with Input Ratings of 75,000 BTU per hour or Less—ANSI Z21.10.1–1998 with Addendum Z21.10.1a–2000.
Household Electric Storage Tank Water Heaters, Tenth Edition—UL 174–1996, with 1997 revisions.

FERROUS PIPE AND FITTINGS

Standard Specification for Pipe, Steel, Black and Hot-Dipped, Zinc-Coated, Welded and Seamless—ASTM A53–93.
Standard Specification for Electric-Resistance-Welded Coiled Steel Tubing for Gas and Fuel Oil Lines—ASTM A539–1999.
Pipe Threads, General Purpose (Inch)—ANSI/ASME B1.20.1–1983.
Welding and Seamless Wrought Steel Pipe—ANSI/ASME B36.10–1979.

NONFERROUS PIPE, TUBING, AND FITTINGS

Standard Specification for Seamless Copper Water Tube—ASTM B88–93.
Standard Specification for Seamless Copper Tube for Air Conditioning and Refrigeration Field Service—ASTM B280, A–95.
Connectors for Gas Appliances—ANSI Z21.24/CGA 6.10–M97–1997.
Manually Operated Gas Valves for Appliances, Appliance Connector Valves and Hose End Valves—ANSI Z21.15/CGA 9.1–M97–1997.
Standard for Gas Supply Connectors for Manufactured Homes—IAPMO TSC 9–1997.
Standard Specification for General Requirements for Wrought Seamless Copper and Copper-Alloy Tubes—ASTM B251–93.
Standard Specification for Seamless Copper Pipe, Standard Sizes—ASTM B42–93.

MISCELLANEOUS

Factory-Made Air Ducts and Connectors, Ninth Edition—UL 181, 1996 with 1998 revisions.
Standard for Safety Closure Systems for use with Rigid Air Ducts and Air Connectors, UL 181A, 1994, with 1998 revisions.
Standard for Safety Closure Systems for use with Flexible Air Ducts and Air Connectors, First Edition—UL 181B, 1995, with 1998 revisions.
Tube Fittings for Flammable and Combustible Fluids, Refrigeration Service, and Marine Use, Sixth Edition—UL 109–1997, with 2001 revisions.
Pigtails and Flexible Hose Connectors for LP-Gas, Seventh Edition—UL 569, 1995 with 2001 revisions.
Roof Jacks for Manufactured Homes and Recreational Vehicles, Eighth Edition—UL 311, 1994, with 1998 revisions.
Relief Valves and Automatic Gas Shutoff Devices for Hot Water Supply Systems—ANSI Z21.22/CSA 4.4–M99, 1999.
Automatic Gas Ignition Systems and Components—ANSI Z21.20 with Addendum Z21.20a–2000.
Automatic Valves for Gas Appliances—ANSI Z21.21/CSA 6.5–2000.
Gas Appliance Thermostats—ANSI Z21.23–1989, with Addendum Z21.23a–1991.
Gas Vents, Ninth Edition—UL 441, 1996 with 1999 revisions.
Standard for the Installation of Oil-Burning Equipment, NFPA 31, 1997 Edition.
National Fuel Gas Code—NFPA 54–2002/ANSI Z223.1–2002.
Warm Air Heating and Air Conditioning Systems, NFPA 90B, 1996 Edition.
Liquefied Petroleum Gas Code, NFPA 58–2001 Edition.
Flares for Tubing—SAE–J533b–1992.
Factory-Built Chimneys for Residential Type and Building Heating Appliances, Ninth Edition—UL 103, 1995, with 1999 revisions.
Factory-Built Fireplaces, Seventh Edition—UL 127–1996, with 1999 revisions.
Solid-Fuel Type Room Heaters, Fifth Edition—UL 1482, 1995, with 2000 revisions.
Fireplace Stoves, Eight Edition, with 2000 revisions—UL 737, 1996.
Unitary Air-Conditioning and Air-Source Heat Pump Equipment—ANSI/ARI 210/240–89.
AGA Requirements for Gas Connectors for Connection of Fixed Appliances for Outdoor Installation, Park Trailers, and Manufactured (Mobile) Homes to the Gas Supply—No. 3–87.

[58 FR 55015, Oct. 25, 1993, as amended at 70 FR 72046, Nov. 30, 2005]

EFFECTIVE DATE NOTE: At 78 FR 73987, Dec. 9, 2013, § 3280.703 was amended as follows, effective June 6, 2014.

a. Under the undesignated heading ''Appliances,'' add a reference standard for ''Decorative Gas Appliances for Installation in Solid Fuel Burning Appliances'' after the standard for ''Gas-Fired Central Furnace'';

b. Under the undesignated heading ''Nonferrous Pipe, Tubing, and Fittings,'' revise the reference standard for ''Standard Specification for Seamless Copper Tube for Air Conditioning and Refrigeration Field Service''; and

c. Under the undesignated heading ''Miscellaneous,'' revise the reference standards

for ''Factory-Made Air Ducts and Connectors,'' ''Relief Valves and Automatic Gas Shutoff Devices for Hot Water Supply System,'' ''Gas Appliance Thermostats,'' and ''Standard for the Installation of Oil-Burning Equipment.''

For the convenience of the user, the added and revised text is set forth as follows:

§ 3280.703 Minimum standards.

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APPLIANCES

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Decorative Gas Appliances for Installation in Solid Fuel Burning Fireplaces—RADCO DS–010–91 (incorporated by reference, see § 3280.4).

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NONFERROUS PIPE, TUBING, AND FITTINGS

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Standard Specification for Seamless Copper Tube for Air Conditioning and Refrigeration Field Service—ASTM B280–95a.

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MISCELLANEOUS

Factory-Made Air Ducts and Air Connectors, UL 181, Ninth Edition, April 4, 1996, with revisions through May 15, 2003 (incorporated by reference, see § 3280.4).

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Relief Valves for Hot Water Supply Systems, ANSI Z21.22–1999, (incorporated by reference, see § 3280.4).

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Gas Appliance Thermostats—ANSI Z21.23–93 (incorporated by reference, see § 3280.4).

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Standard for the Installation of Oil-Burning Equipment, NFPA 31–01 (incorporated by reference, see § 3280.4).

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§ 3280.704 Fuel supply systems.

(a) *LP—Gas system design and service line pressure.* (1) Systems shall be of the vapor-withdrawal type.

(2) Gas, at a pressure not over 14 inches water column (½ psi), shall be delivered from the system into the gas supply connection.

(b) *LP-gas containers*—(1) *Maximum capacity.* No more than two containers having an individual water capacity of not more than 105 pounds (approximately 45 pounds LP-gas capacity), shall be installed on or in a compartment of any manufactured home.

(2) *Construction of containers.* Containers shall be constructed and marked in accordance with the specifications for LP-Gas Containers of the U.S. Department of Transportation (DOT) or the Rules for Construction of Pressure Vessels 1986, ASME Boiler and Pressure Vessel Code section VIII, Division 1 ASME Containers shall have a design pressure of at least 312.5 psig.

(i) Container supply systems shall be arranged for vapor withdrawal only.

(ii) Container openings for vapor withdrawal shall be located in the vapor space when the container is in service or shall be provided with a suitable internal withdrawal tube which communicates with the vapor space on or near the highest point in the container when it is mounted in service position, with the vehicle on a level surface. Containers shall be permanently and legibly marked in a conspicuous manner on the outside to show the correct mounting position and the position of the service outlet connection. The method of mounting in place shall be such as to minimize the possibility of an incorrect positioning of the container.

(3) *Location of LP-gas containers and systems.* (i) LP-gas containers shall not be installed, nor shall provisions be made for installing or storing any LP-gas container, even temporarily, inside any manufactured home except for listed, completely self-contained hand torches, lanterns, or similar equipment with containers having a maximum water capacity of not more than 2½ pounds (approximately one pound LP-gas capacity).

(ii) Containers, control valves, and regulating equipment, when installed, shall be mounted on the ''A'' frame of the manufactured home, or installed in a compartment that is vaportight to the inside of the manufactured home